In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

STATUS OF CLAIMS

- 1. (Currently Amended) A method of detecting the presence of a disseminated epithelial cell marker in a sample comprising the steps of
 - a) eliminating CD34+ cells from the sample; and
- b) detecting the presence of mRNA that encodes the marker; wherein the marker is a differentiation specific antigen;

wherein said detection of said mRNA indicates the presence of a disseminated epithelial cell marker.

2. (Canceled)

- 3. (Currently Amended) The method of claim $\underline{1}$ 2, wherein the tissue is selected from the group consisting of colon, lung, prostate, testis, breast, liver, and skin.
- 4. (Previously Presented) The method of claim 1, wherein the disseminated epithelial cell marker is selected from the group consisting of guanylyl cyclase C, Cdx-1, Cdx-1, Cdx-2, sucrase isomaltase, lactase, carbonic anhydrase, prostate specific antigen, prostate specific membrane antigen, cytokeratin 18, cytokeratin 19, cytokeratin 20, carcinoembryonic antigen, ErbB2, Erb-B3, epithelial mucin-1, epithelial mucin-18, gastrointestinal tumor associated antigen 733.2, desmoplakin I, epithelial glycoprotein 40, tyrosinase, thyroglobulin, tyrosine hydroxylase, and neuron-specific glycoprotein.

5. (Canceled)

- 6. (Previously Presented) The method of claim 1, wherein the CD34+ cells are removed by column chromatography.
- 7. (Original) The method of claim 1, wherein the sample is tissue or bodily fluid.
- 8. (Original) The method of claim 1, wherein the sample is selected from the group consisting of blood, lymph tissue, and bone marrow.
- 9. (Original) The method of claim 1, wherein the mRNA is detected a polymerase chain reaction (PCR)-based method.
- 10. (Original) The method of claim 1, wherein the mRNA is detected by reverse transcriptase (RT)-PCR.
- 11. (Original) The method of claim 1, wherein the mRNA is detected by nested RT-PCR.
- 12. (Canceled)
- 13. (Previously Presented) The method of claim 1, wherein the marker is selected from the group consisting of guanylyl cyclase-C (GC-C), prostate-specific antigen (PSA), prostate-specific membrane antigen (PSM), cytokeratin-19 (CK-19), cytokeratin-20 (CK-20), mucin 1 (MUC-1), and gastrointestinal-associated antigen (GA733.2).
- 14. (Original) The method of claim 1, wherein the marker is GC-C.
- 15. (Previously Presented) The method of claim 1, wherein the disseminated epithelial cell marker is a cell marker for a metastatic colon cancer cell.
- 16-36. (Canceled)

- 37. (Previously Presented) The method of claim 1 wherein the sample is mononuclear cells isolated from blood.
- 38. (Previously Presented) The method of claim 37, wherein the disseminated epithelial cell marker is a tissue-specific marker.
- 39. (Previously Presented) The method of claim 38, wherein the tissue is selected from the group consisting of colon, lung, prostate, testis, breast, liver, and skin.
- 40. (Previously Presented) The method of claim 37, wherein the disseminated epithelial cell marker is selected from the group consisting of guanylyl cyclase C, Cdx-1, Cdx-1, Cdx-2, sucrase isomaltase, lactase, carbonic anhydrase, prostate specific antigen, prostate specific membrane antigen, cytokeratin 18, cytokeratin 19, cytokeratin 20, ErbB2, Erb-B3, epithelial mucin-1, epithelial mucin-18, gastrointestinal tumor associated antigen 733.2, desmoplakin I, epithelial glycoprotein 40, tyrosinase, thyroglobulin, tyrosine hydroxylase, and neuron-specific glycoprotein.
- 41. (Previously Presented) The method of claim 37, wherein the CD34+ cells are removed by column chromatography.
- 42. (Previously Presented) The method of claim 37, wherein the mRNA is detected a polymerase chain reaction (PCR)-based method.
- 43. (Previously Presented) The method of claim 37, wherein the mRNA is detected by reverse transcriptase (RT)-PCR.
- 44. (Previously Presented) The method of claim 37, wherein the mRNA is detected by nested RT-PCR.

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- 45. (Previously Presented) The method of claim 37, wherein the marker is selected from the group consisting of guanylyl cyclase-C (GC-C), prostate-specific antigen (PSA), prostate-specific membrane antigen (PSM), cytokeratin-19 (CK-19), cytokeratin-20 (CK-20), mucin 1 (MUC-1), and gastrointestinal-associated antigen (GA733.2).
- 46. (Previously Presented) The method of claim 37, wherein the marker is GC-C.
- 47. (Previously Presented) The method of claim 37, wherein the disseminated cell marker is a cell marker for a metastatic colon cancer cell.